

ABSTRACT

A sulfenyl compound represented by the general formula: R-S-X (I) (wherein R represents an organic group having at least one constituent element labeled with an isotope, and X represents a leaving group); a labeling reagent comprising it; and a method of analyzing peptide using the labeling reagent. Preferably the organic group R comprises C, H, and N, and optionally O and/or P as the constituent element, and the isotope is a stable isotope selected from the group consisting of ^2H , ^{13}C , ^{15}N , ^{17}O , and ^{18}O .